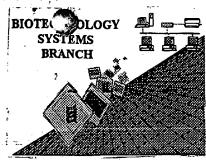
RAW SEQUENCE LISTING ERROR REPORT



e Scientific and Technical Information

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

Source:

Date Processed by STIC:

09/199,129

VNI ADIC DETECTED EDDODS

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin30help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

RAW SEQUENCE LISTING DATE: 01/04/2001 PATENT APPLICATION: US/09/199,129 TIME: 11:43:45 **Does Not Comply** Input Set : D:\slreg..txt Corrected Diskette Needed Output Set: N:\CRF3\01042001\I199129.raw 1 <110> APPLICANT: Byrum, Joseph R. La Rosa, Thomas J. 4 <120> TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With Plants 7 <130> FILE REFERENCE: 38-21(15075)B 9 <140> CURRENT APPLICATION NUMBER: US/09/199,129 9 <141> CURRENT FILING DATE: 1998-11-24 9 <160> NUMBER OF SEQ ID NOS: 5521 The only valid responser for a ruelectrile sequence are either DNA 20 ggaaatctya agctacctta agchaatch dhatggccaa innigcaacac tagtcatcgc
22 ttcaagctac ttchitte cttchiacte tgeactette aftegetgag attteteteg
24 aagaagagatt cgaagatga tggaagage chigggstget annegatgg aaaaggagtg
26 aaggaaaage gggtacette aagcacacag caggaaaatg gtetggggat cchigatgach
28 aaggtettea gaca
31 <210 > SEO ID NO: 2 1.20 32 <211> LENGTH: 395
E--> 33 <212> TYPE: nucleic acid 34 <213> ORGANISM: Glycine max 36 <223> OTHER INFORMATION: Clone ID: a RNA. es 38 <400> SEQUENCE: 2 40 aggogettet agangeeqeea engetattee ttegaeqeea ageangaeaa anggegetge 120 42 gccaaccggg gactgcggcg ggtnccctgt tctgcaacgg categgngga agcccaccgn The sequence is 44 ctagnotyge ggaytteace etyggeaacg ancatgantt etacgaagty agcotygtyg 180 240 46 acgggtaenn cetaeceate tecatnanen cetteaaagg atteeggaaa atgeactaen a combined PNA/RNA. 48 coggettgcg tgaacgangt caacnocatg tgccccgttg ggett 51 <210> SEQ ID NO: 3 52 <211> LENGTH: 27 53 <212> TYPE: (nucleic acid) use DNA and 54 <213> ORGANISM: Glycine max 5/2207
56 <223> OTHER INFORMATION: Clone ID: 700547903H1 58 <400> SEQUENCE: 3 Iplan in 60 eggtgacoca tteattggaa geetggaaac eccagttaca tecagecett tgategeatg 62 gtacttgtcc aacctgcccg catacagaac cgcagtgagc ccactactaa gayggatcga 120 64 ggtgggcotg geoeacggat acettetggt gggccoatte gtgaaggeeg ggcotettag 66 gaacaccgag alegeoggge aagegygete telggeegee gglgggellg legtgaleel 240 62207-62237 68 cageettige etcacaatet nigggattie ateette 277 71 <210> SEQ ID NO: 4 72 <211> LENGTH: 219 section.

use 2227 (Leaduronly-no response) WHENEVER (2217, 12227, OR 12237 is shown. MANDATORY.

RAW SEQUENCE LISTING DATE: 01/04/2001 PATENT APPLICATION: US/09/199,129 TIME: 11:43:45

Input Set : D:\slreg..txt

Output Set: N:\CRF3\01042001\1199129.raw

E>	73 <212> TYPE: nucleic acid
	74 <213> ORGANISM: Glycine max
	76 <223> OTHER INFORMATION: Clone ID: 700547904H1
	78 <400> SEQUENCE: 4
	80 agreateate atgygageag tgattetere agatetegge aeegagatit tgatteeggt 60
	82 etgegeeate attggaatag ggttegeeet ettecagtgg gteetegtet ecaaggttaa 120
	84 geteteeget gecayayaeg etteecetaa egecyceyge aaaaatgget acaacgatta 180
	86 octoatogna gaagaggaag gootcaacga toacnacgt 219
	89 <210> SEQ 1D NO: 5
	90 <211> LENGTH: 271
	91 (212) TYPE: nucleic acid
	92 <213> ORGANISM: Glycine max
	94 <223> OTHER INFORMATION: Clone ID: 700547905H1
	96 <400> SEQUENCE: 5
	98 ctogogoaco ettatoctog ttgotitoto ttigoacato attotiggot tittogacga - 60 100 otoacoacot goticaaaag afgotacaaa coggaagaag cactagigot atagitatoa -120
	100 etcaccacet getteaaaag atgetacaaa eeggaagaag eactagtget atagttatea - 120 102 ttetteeagg ggataaaata ttaggtetgg eaaaaattte ttgggtattg gaateecagg - 180
	102 coolections grantagata classicosy caacaantic loggitatis gaaloolagy 100 104 agatgooday gactiotica atcaagioga gicataggit itolagagag caalaggada 240
	106 gtgcttacta aaaacaatct tatttaaatg c 271
	100 gegonated additional categories (27)
	110 <211> LENGTH: 245
	111 <212> TYPE: nucleic acid
	112 <213> ORGANISM: Glycine max
	114 <223> OTHER INFORMATION: Clone ID: 700547906H1
	116 <400> SEQUENCE: 6
	118 geggetteca atggecacte tgcaatteae ettgcacega etcaaceaea ttgtneaggn - 60
	120 ottototace ticeaegega accitotele gaaaeegaag celeatiyte aaageenett. 120
	122 tottottytt otgacyaett otocaaaayn aggognognt toagogonyn aanogoogna - 180
:	124 ctotoggnot ogotoconca gitanningng ogignogaag angogottho ggagitiggan 240
	126 anagt . 245
	129 <210> SEQ ID NO: 7
	130 <21.1> LENGTH: 275
	131 <212> TYPE: nucleic acid
	132 <213> ORGANISM: Glycine max
	134 <223> OTHER INFORMATION: Clone ID: 700547907H1
	136 <400> SEQUENCE: 7 138 teacaaaaca actiteaaac tetgagaaag aatggetgee aacacattga tgagtactge - 60
	138 teacaaaaca actiteaaac tetgagaaag aatggetgee aacacatiga tgagtacige = 60 140 tateteagee ticecaiete teetiteette eteaaaatee agatitgeea negeagitee = 120
	140 tatettagee tittecatete teetitette eteadaatee ayattigeea megeagitee – 120 142 teittetage tittggigtea ceaatgeete tiettenege tittetatga gigetgaetg – 180
	142 tecthology they are too than the teather the tecthology territory and the 180
	146 cgancotott ngtottggtg aagtaccaga gaato 275
	149 <210> SEQ TD NO: 8
	150 <211> LENGTH: 273
•	151 <212> TYPE: nucleic acid
	L52 <213> ORGANTSM: Glycine max
	154 <223> OTHER INFORMATION: Clone ID: 700547909H1
	156 <400> SEQUENCE: 8
-	
1	158 anagoctagy gitoittito tottotgoto toaclocity caaalotogo giaacgeaty 60 160 cytiloita oloaalogga goccagoact galotatity gaactoticy aggiotylyg 120

same

DATE: 01/04/2001 TIME: 11:43:45 RAW SEQUENCE LISTING PATENT APPLICATION: US/09/199,129

Input Set : D:\slreg..txt
Output Set: N:\CRF3\01042001\1199129.raw

	162	ttttactgta ctcaatttga taaattaagg cannnnnnnn nnnnnnnnn nnnntcccc	180
	164	togtgttlat ggatgtgtcc atcgatgggg atcctgttga aaggalggtt tttgagcttt	240
		ctatgatgtt gctcccaaga ctgnagaaaa ctt	273
		<210> SEO 1D NO: 9	
		<211> LENGTH: 235	
E>		<pre><212> TYPE: nucleic acid</pre>	
		<213> ORGANISM: Glycine max	
		<223> OTHER INFORMATION: Clone ID: 700547910H1	
	176	<400> SEQUENCE: 9	
	178	agoccattca aggataacga atttatgggt ggatcaattt caaaacggag gcgttctagg	60
	180	caacgttogg cotcaaattt tottoctogg tatcaacaac otcatttocc acaaagccaa	120
	182	qataatqqqt ctqtqqqqca ttatqqqtat tcatctcaqa qctataqtqq tqqtcqtqct	180
	184	ccagaacaag taaagagetn ggataggaag tatttaaggn taggtgatga ttata	235
		<210> SEQ ID NO: 10	
		<211> LENGTH: 265	
		<pre><212> TYPE: nucleic acid</pre>	
E>		<213> ORGANISM: Glycine max	
		•	
		<223> OTHER INFORMATION: Clone ID: 700547911H1	
		<400> SEQUENCE: 10	
		caaaaaaaccc aaatgcaggt ttctccacta aaacttuggc gattttcana tttngtactt	60
		tggcaccett cacatagtag ttetcaccat gteegatact aaaagaagtg ccaacaacag	120
		cggttccaag cggagcctgc catcgtggac gaattcaagg qaaaatgaga gcgataacag	180
	202	tgcaaagaaa ccaactttgg atggccaagg tgagaaatcc agtgacgctg agacacccca	240
	204	caagagcaaa gtccaaaatg aaaat	265
	207	<210> SEQ ID NO: 11	
	208	<211> LENGTH: 273	
E>	209	<212> TYPE: nucleic acid	
	210	<21.3> ORGANISM: Glycine max	
		<223> OTHER INFORMATION: Clone ID: 700547913H1	
		<400> SEQUENCE: 11	
		gtcacaacce aagcetcege egegatitite eggceatgig cetegaaate gaggitteig	60
		accognition accognition of the control of the contr	120
		totgootott toaaggttga agocaagaag ggagagtggt tacotggott ggootocca	1.80
		acttacetea atggeactet teetggtgae aatggatttg accetetggg actagetgag	240
			273
		gacccagaga acttgaggtg gtacgttcaa gcc	2/3
		<21.0> SEQ ID NO: 12	
		<211> LENGTH: 273	
E>		<212> TYPE: nucleic acid	
		<213> ORGANISM: Glycine max	
		<223> OTHER INFORMATION: Clone ID: 700547914H1	
		<400> SEQUENCE: 12 .	
	236	gegtaacaac aataaaaate teecattigi niittietiet eticaegeac accaacaaaa	. 60
		cetetetete ateggaatet eeaaaaagaa tggaeaacaa aaegeageag teegagagta	120
	240	agcaaaacga caacgacgag gaagttgegc caaaacgaca agaccetaac ccgtcgtctg	180
		gegggtgggg cttttcaccg ctctcgtttc tctccgatct tcagaaggcc gccgctgttg	240
		cageegaaga gatetetege aatgetgetg tag	273
		<210> SEQ ID NO: 13	
		<211> LENGTH: 277	
E>		<212> TYPE: nucleic acid	

RAW SEQUENCE LISTING DATE: 01/04/2001
PATENT APPLICATION: US/09/199,129 TIME: 11:43:45

Input Set : D:\slreg..txt

Output Set: N:\CRF3\01042001\I199129.raw

```
250 <213> ORGANISM: Glycine max
     252 <223> OTHER INFORMATION: Clone ID: 700547916H1
     254 <400> SEQUENCE: 13
     256 aguacaagta gttgaqaact aagaaggaga agcaaatggc ttcctcaatg atctcttccc
     258 cagetyttae caetyteaac cytgeegyty eeggeatyyt tyeteeatte aetygeetea
     260 agtocatgge tggetteece accagaaaga ceaacaatga cattanetee attgetagea
                                                                             180
     262 acqqtqqaaq aqtqcnatqc atqcaqqtqt qqqccaccaq ttgqcaagaa gaaqtttqaq
                                                                             240
     264 actouttect acctgecaga cettgatgat geacatt
     267 <210> SEO 1D NO: 14
     268 <211> LENGTH: 275
E--> 269 <212> TYPE: nucleic acid
     270 <213> ORGANISM: Glycine max
     272 <223> OTHER INFORMATION: Clone ID: 700547917H1
     274 <400> SEQUENCE: 14
     276 gagcatttch aatggagcaa gaaattggtg atteatttte titegtiggg nattgcatth
     278 quantitatet ggatteatty attigettye naegggnnet tyggtnetae tetgaacaen
     280 aattttcaag atagctatgg gtgttgnata tttttntgtg aagaattaat gagcataatg
                                                                            1.80
     282 ttttclggaa agantggggg cagacgaate teattgtcaa ganttacaga gtttgagtgt
                                                                            240
     284 gtcaaagcga cttgtganga gtgttagcca gaagt
     287 <210> SEQ ID NO: 15
     288 <211> LENGTH: 273
E--> 289 <212> TYPE: nucleic acid
     290 <213> ORGANISM: Glycine max
     292 <223> OTHER INFORMATION: Clone ID: 700547920H1
     294 <400> SEQUENCE: 15
     296 atteteteca tatattatet caaacceete teacagaalg ggaagtgetg gaggaactga
     298 ctatggtgca tacacttatg agaatettga gagagageet tactggccat cagagaaget
                                                                            120
     300 taagatttoo atcactggng otgggggttt tatogogtoa cacatagoto ggogootoaa
                                                                             180
     302 gacagagggg cattacatta ttgcttctga ttggaagaaa aatgagcaca tgactgagga
                                                                             240
     304 catgiticigt gatgaattee atcitigitiga tet
                                                                             273
     307 <210> SEQ ID NO: 16
     308 <211> LENGTH: 273
E--> 309 <212> TYPE: nucleic acid
     310 <213> ORGANISH: Glycine max
     312 <223> OTHER INFORMATION: Clone ID: 700547921H1
     314 <400> SEQUENCE: 16
     316 atcacaccat gocaccgcta gtgacaatca agagaactcc ttcaagaagg gttctgctcg
     318 ctctqccaqt aaaagtcagg agaacaagtc atctggatta tcaaagtcat cgactaatgc
                                                                             120
     320 aaataattat ggftcagttt cttctcaaag ntcaagtgta cctgcaaaca gtactgagga
                                                                            180
     322 tgacatggat gattttgatc caagaggaac ttctaccaaa acttcagctg gaaactctaa
                                                                            240
     324 cocagattaa tototttaga caagattaat ogg
     327 <21.0> SEQ ID NO: 17
     328 <211> LENGTH: 245
E--> 329 <212> TYPE: nucleic acid
     330 <213> ORGANTSM: Glycine max
     332 <223> OTHER INFORMATION: Clone ID: 700547924H1
     334 <400> SEQUENCE: 17
     336 gacacgotea egeogteaaa ecaacttgag tgegtteeag gaaacacate ecoteteeat
     338 theatteact tolotyclet electitotee caegaatice caeacttatt theaegette | 120
```

Marie

RAW SEQUENCE LISTING DATE: 01/04/2001
PATENT APPLICATION: US/09/199,129 TIME: 11:43:45

Input Set : D:\slreg..txt

Output Set: N:\CRF3\01042001\I199129.raw

```
340 caattroogt caogtaaacc atgcatcacc gcctcccaaa ttagqgtttc cgacaggcgc
     342 gtggaggaat egatggegae egtgaateeg cageetetge agttegagga eeetgetata
     344 cccqc
     347 <210> SEO 1D NO: 18
     348 <211> LENGTH: 271
E--> 349 <212> TYPE: nucleic acid
     350 <213> ORGANTSM: Glycine max
     352 <223> OTHER INFORMATION: Clone ID: 700547925H1
     354 <400> SEQUENCE: 18
     356 titottocca titoacocci ogtotitoct tgittocggi gagggecaac cuéaacatat
     358 gttaaacaag yaacaacto caaaacataa catootacgo caaacaaaac titgacetee
                                                                            1.80
     360 ticaqateta taceetnnna nannannana nitetatitic aaattetaca teatqqqeac
     362 ggaggtteta eggeeacaag attgttteae ecaaegeate ggtgtteeae egeetggett
                                                                            240
     364 tecceggoga agaacetatg gtacecacca c
     367 <210> SEQ ID NO: 19
     368 <211> LENGTH: 270
E--> 369 <212> TYPE: nucleic acid
     370 <213> ORGANISM: Glycine max
     372 <223> OTHER INFORMATION: Clone ID: 700547926H1
     371 <400> SEQUENCE: 19
     376 cottatitto titocotaqt caaggagatt catototgea geaggitgit tiagaaaaga
     378 aaaaatgctg aagatttgct gcattggggc tggatatgtg gggggtccaa caatggcagt
     380 cattgeactg anatgeeect coattgaagt ggetgttgtt gacateteta aatceaggat
     382 tgcagcatgg aacagtgacc ageteectat ctatgageca ggcettgatg atgtggtgaa
                                                                            240
                                                                             270
     384 genatytegt ggenagaace tittetteag
     387 <210> SEQ TD NO: 20
     388 <211> LENGTH: 269
E--> 389 <212> TYPE: nucleic acid
     390 <213> ORGANISM: Glycine max
     392 <223> OTHER INFORMATION: Clone ID: 700547927H1
     394 <400> SEQUENCE: 20
     396 chaqattiga aggitegita igetecaeai eteceaetig teligegegg teliacatge
                                                                            120
     398 abatttogtg gaggactgaa aactgycatt gttgggagaa caggaagtgg taaatccact
     400 ctcatacaaa cacttttccg aattgttgag cctactgccg gccaagttat gattgacagc
                                                                            180
     402 atcaacatet etteaatgga etteatgatt tgaggtetag actaageate atceteeaga
                                                                            240
     404 ttccacaatg tttgaaggga ccgtgagaa
```

sone.

FYI:

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

FYI;

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY DATE: 01/04/2001
PATENT APPLICATION: US/09/199.129 TIME: 11:43:57

Input Set : D:\slreg..txt

Output Set: N:\CRF3\01042001\1199129.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:13 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:33 M:310 B: (3) Wrong or Missing Sequence Type, TYPE: L:53 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:73 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:91 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:111 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:131 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:151 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:171 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:189 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:209 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:229 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:249 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:269 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:289 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:309 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:329 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:349 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:369 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:389 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:409 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:129 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:449 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:469 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:489 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: $T_{\rm c}:509$ M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:529 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:549 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:569 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:589 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:609 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:629 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:649 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: 1:669 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:689 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:709 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:729 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:749 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:769 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:789 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:809 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:829 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:849 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:863 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:883 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:903 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/199,129

DATE: 01/04/2001 TIME: 11:43:57

Input Set : D:\slreg..txt

Output Set: N:\CRF3\01042001\I199129.raw

L:923 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:943 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:963 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: L:983 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: